



AMERICAN STEEL AND WIRE CORPORATION

CUYAHOGA WORKS 4300 East 49th Street Cuyahoga Heights, OH 44125

March, 1992

SPILL PREVENTION, CONTROL AND COUNTERMEASURE PLAN (SPCC PLAN)

(40 CFR Part 112)

For the Management of Oil and Hazardous Chemicals

Particularly, as pertaining to Water Pollution Abatement



American Steel & Wire Corporation

May 20, 1992

Maureen O'Mara United States Environmental Protection Agency Region 5 77 West Jackson Boulevard Chicago, Il. 60604-3590



Dear Maureen:

Referencing your letter received on May 11, 1992, I am pleased to submit our Spill Prevention, Control and Countermeasure (SPCC) Plan for the Cuyahoga Facility. As of this writing, the plan has been fully implemented.

Repling to the attention of:

HSE-5J/ESS-SPCC

W2320

If you have any questions concerning this SPCC Plan, please feel free to contact me at (216) 883-3800, extension 488.

Sincerly yours,

AMERICAN STEEL & WIRE CORPORATION

hustopher M.

Christopher M. Zielinski

Engineering/Environmental Services Technician

cc Joseph Markiw, Manager, Engineering/Environmental Services Robert Meyer, V.P. Operations

SPILL PREVENTION CONTROL & COUNTERMEASURE PLAN

GENERAL INFORMATION

- 1. Name of facility American Steel & Wire Corporation, Cuyahoga Works
- 2. Type of facility The facility produces steel rod. Operation consist of conditioning, heating and rolling elongated square, carbon and low-lead steel billets into round rod which is coiled and banded prior to shipping. The rolling process utilizes recycled water for both contact and non-contact applications.
- 3. Location of facility 4300 East 49th Street, Cuyahoga Hts., Ohio 44125
- 4. Name and address of owner or operator:

Name American Steel & Wire Corporation

Address 4300 East 49th Street, Cuyahoga Heights, Ohio 44125

5. Designated person accountable for spill prevention at facility:

Name and title Robert L. Meyer, Vice President, Operations

| | MANAGEMENT APPROVAL This SPCC Plan will be implemented as herein described. |
|---------------------|--|
| Signature: Name: | Robert L. Meyer |
| Title: _ | Vice President, Operations |
| | |

I hereby certify that I have examined the facility, and being familiar with the provisions of 40 CFR, Part 112, attest that this SPCC Plan has been prepared in accordance with good engineering practices.

(Seal)

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Date april 21, 1992

PCS # 01.01.15 ENG/ENV Rev. 1.0

Dennis J. Cohil

Printed Name of Registered Professional Engineer

Signature of Registered Professional Engineer Registration No. 062-028366 State Illinois

Emergency Response/Spill Response Notification

Engineering/Environmental Services

| John Mack | x7692 |
|------------|-------|
| Joe Markiw | x7662 |
| Security | x429 |

| Cuvahoga Heights Fire Department | 911 | or | 641-1923 |
|----------------------------------|-----|----|----------|
|----------------------------------|-----|----|----------|

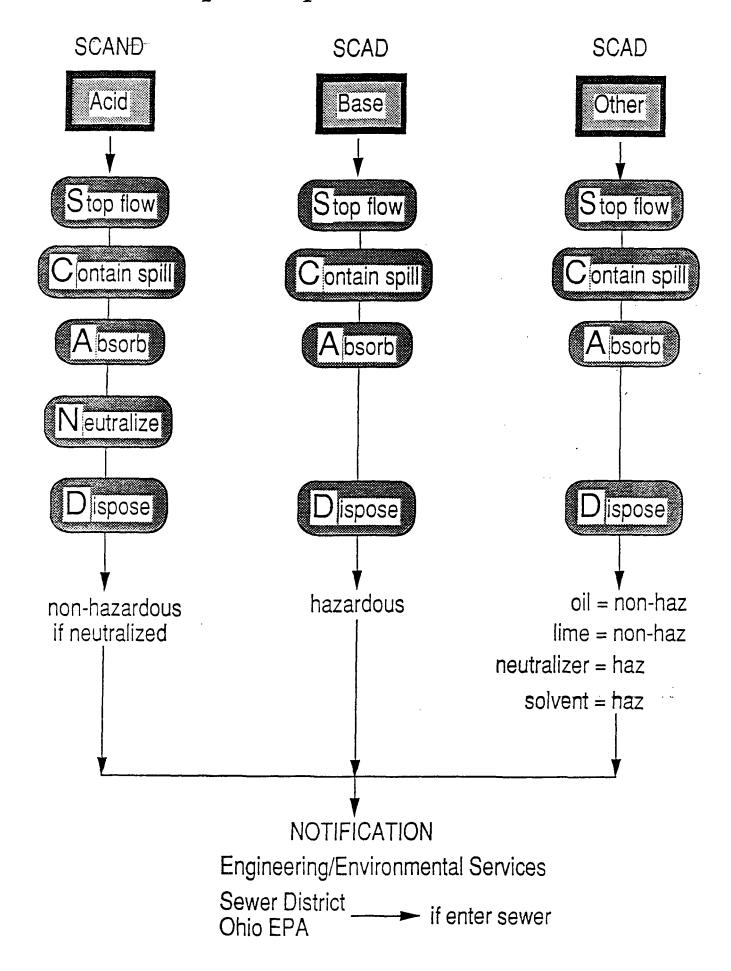
| Ohio EPA Hotline | 1-800-282-9378 |
|------------------|----------------|
|------------------|----------------|

Northeast Ohio Regional Sewer District 641-6000

24 Hour Emergency Spill Response

| Samsel Services Company | 216-861-3949 |
|-------------------------|--------------|
| Petroclean | 412-279-9556 |

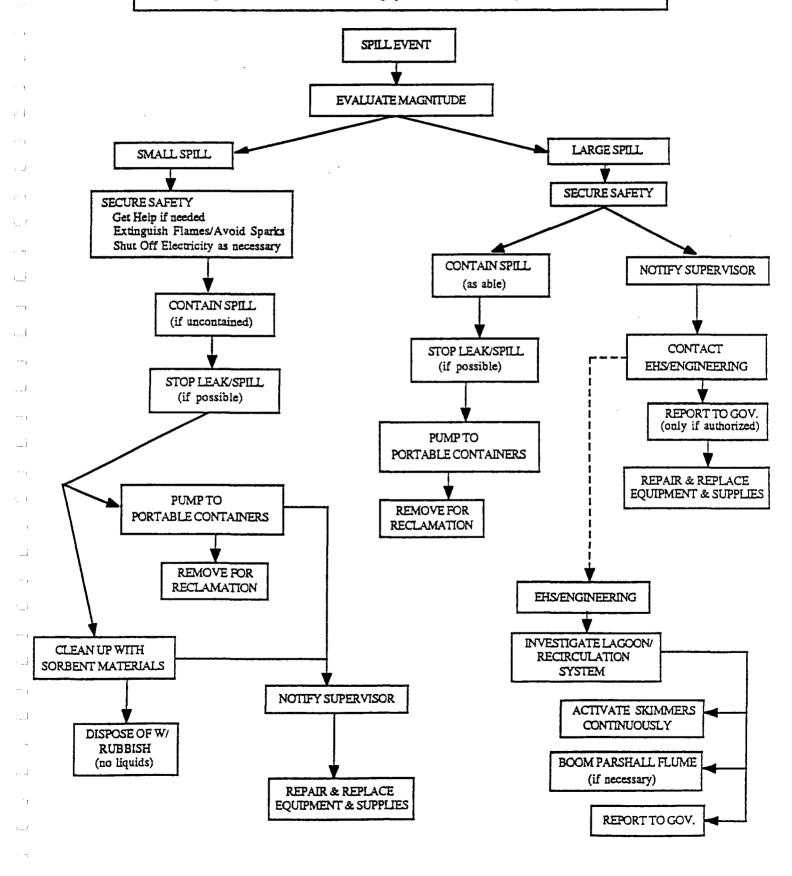
Spill Response Flow Chart



EMERGENCY RESPONSE PLAN OUTLINE

PREPARE & PREVENT

- 1. Operate & Maintain Systems in a manner preventing leaks & spills
- 2. Monitor Systems to identify & react to malfunctions in early stages
- 3. Design, Install & Maintain control equipment to isolate leaks/spills from the environment



1.0 Emergency Oil or Hazardous Substances Spill Response Procedure

- 1.1 In the event of an Emergency Spill . . .
 - 1. Secure your SAFETY and the SAFETY of others
 - 2. Contain the Spill and stop the Source (when possible)
 - 3. Initiate Clean-Up

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- 4. Contact your Supervisor
- 5. (Supervisors) Contact Manager, Environmental Services or Authorized Manager for Reporting to appropriate Governmental Agencies

1.2 Wire Mill Corrosive Materials Handling and Spill Plan

Refer to Wire Corrosive Materials Handling and Spill Plan for specific procedures for dealing with spills of corrosive cleaning house chemicals. This plan is reproduced in Appendix Section 8.3.

1.3 Authorized Managers-Emergency Response Coordinators

| POSITION | DIVISION | WORK PHONE |
|---------------------------------|-----------|------------|
| Manager, Environmental Services | Corp. | 7692 |
| Manager, Eng/Env. Services | Corp. | 7662 |
| General Manager | Rod Mill | 7659 |
| Mgr. Mech. Maint. | Rod Mill | 439 |
| General Manager | Wire Mill | 309 |
| Operations Manager | Wire Mill | 470 |
| V. P. Operations | Corp. | 7641 |
| | | |

1.4 Agencies Requiring Contact in the Event of an Oil Spill to a Waterway

| Ohio EPA Hotline Ohio EPA District Office (Twinsburg) | 1-800-282-9378 (216) 425-9171 |
|---|--|
| National Response Center | 1-800-424-8802 |
| U. S. Coast Guard-Cleveland, OH | (216) 522-4404 (day) (216) 522-4412 (night) |

1.5 Additional Agencies for Contact or Assistance

| ASW Emergency/Guard House | 429 |
|----------------------------------|----------------|
| Cuyahoga Heights Fire Department | (216) 641-1923 |
| Cuyahoga Heights Ambulance | (216) 641-1923 |

1.6 24 Hour Emergency Reponse Companies

| Samsel Services Company | (216) 861-3949 |
|-------------------------|----------------|
| Petroclean | (412) 279-9556 |

2.0 Introduction

2.1 Description of the Facility

The American Steel & Wire (ASW) Cuyahoga Works is a secondary steel processing facility located in the southwest corner of the Cleveland South Quadrangle (T. 7 N. R. 12 W.) in a suburb of Cleveland known as Cuyahoga Heights, Ohio. The property consists of approximately 220 acres (Lots 271, 291, 292, 295 & 296) on the ridge of the valley,

descending on the south and west laterals to the floodplain and banks of the Cuyahoga River. Natural soils are sandy loams and clays. A significant portion of natural slope was raised to present grade by historical deposition and fill with steel mill slag.

Preliminary structures were constructed in the early 1900's and additional facilities have been added over time (under previous ownership) resulting in approximately 50 acres of building under roof. At one time, several metal processing operations existed and ran concurrently at this site. Presently, three mills and one processor operate at this facility: ASW Cuyahoga Rod Mill, ASW Cuyahoga Wire Mill, Gibraltar Strip Steel (a tenant company, independent from ASW) Cold Roll Mill and Nook Industries (another tenant). A significant portion of existing structures are currently vacant, but slated as rental properties for similiar or complimentary businesses.

There are no blast furnaces at this location. Rod Mill operations consist of conditioning (grinding), heating and rolling elongated square, carbon, low-lead or occassional stainless steel billets into round rod which is coiled and banded prior to shipping. The rolling process utilizes service water for both contact and non-contact applications. The Wire Mill starts with carbon steel rod and draws it into wire through die machines. Additional processes include Heat Treating (annealing) and Metal Cleaning & Coating with sulfuric acid and/or various chemicals. Service Water is used for non-contact cooling. Gibraltar Strip Steel re-rolls strip steel (cold), heat treats and slits-to-size carbon steels. Service water is used for non-contact cooling.

The Ohio Canal terminates at the ASW property and, under lease from the State of Ohio, is the source of make-up Service Water for the Cuyahoga Works. Water is pumped up to the mills, utilized and returned into a settling lagoon from which most of it recirculates back up to the mills. Losses are compensated for with canal water, introduced into the system by opening electric controlled, level activated valves. A small percentage of water is blown down or discharged through a Parshall Flume to the Cuyahoga River under EPA NPDES Permit # OHD0002601.

2.2 Purpose of the Oil SPCC Plan

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The American Steel & Wire Corporation and tenant companies utilize oils in day-to-day operations. ASW is committed to operating in a manner which minimizes adverse impacts on the natural environment (including oil spills and spills of hazardous chemicals), and, in compliance with all law and regulations. In order to fulfill this committment, ASW has developed this Spill Prevention, Control and Countermeasure (SPCC) Plan to

- Identify all areas where significant quantities of oil and other hazardous chemicals are used, stored or handled, which could, if spilled or mishandled, cause a harmful discharge or reportable discharge under the Clean Water, RCRA, or CERCLA, to the Waters of the United States
- Design and install, where applicable and feasible, physical control devises to prevent such discharges
- Monitor through Inspection these systems for operation and effectiveness
- Provide equipment for Emergency Response
- Train employees on Spill Prevention as well as Emergency Response Procedures
- Establish Governmental Reporting Procedures to be activated if necessary
- Develop and record (as required) administrative procedures for all aformentioned activities

This written plan will be maintained for reference with the following persons at these designated locations

Manager, Environmental Services Manager Mechanical Maintenance Manager, Operations Manager Heat Treating Engineering/Environmental Services Department Rod Mill Wire Mill Cleaning House Office Wire Mill (Heat Treating Office)

3.0 Identification of Oil and Hazardous Chemical Systems and Locations

3.1 System Identification and Location

| <u>MILL</u> | OIL TYPE | SYSTEM |
|---------------|---------------------------------|------------------------------------|
| ROD | Hydraulic-Glycol | Morgoil A System |
| ROD | Hydraulic-Glycol | Morgoil B System |
| ROD | Hydraulic-Glycol | AA System (No Twist, etc) |
| ROD | Hydraulic-Glycol | BB System (Dowenders) |
| ROD | Hydraulic-Glycol | CC System (Banders) |
| ROD | Hydraulic-Glycol | #1 Unloader |
| ROD | Hydraulic-Glycol | #2 Unloader |
| ROD | Hydraulic | Magnaglo |
| ROD | Hydraulic | Grinders (North & South) |
| ROD | Emulsion | Roll Shop Grinders |
| ROD | Mixed Oils | Scale Pit Oil Skimmer |
| ROD | Petroleum Prod. General Storage | Roll Shop |
| ROD | Petroleum Prod. General Storage | 5 Dock |
| ROD | Lube Oil | A Lube System |
| ROD | Lube Oil | D Lube System |
| ROD | Lube Oil | E Lube System |
| ROD | Circulating (Lube) Oil | EE Lube System |
| ROD | Lube Oil | Laying Heads (each) |
| WIRE | Circulating (Lube) Oil | Wire Drawing Machines |
| WIRE | Coating Oil | Shipping-Dip Tank |
| WIRE | Hydraulic-Glycol | Continuous Furnace |
| WIRE | Seal Oil | Heat Treat Basement (N&S) |
| WIRE | Petroleum Prod. General Storage | Maintenance |
| WIRE | Sulfuric Acid | Storage Tank by Continuous Furnace |
| WIRE | Sulfuric Acid | Cleaning House Process Tanks |
| WIRE | Sodium Hydroxide | Drum Storage Cleaning House |
| WIRE | Potassium Permaganate | Drum Storage Cleaning House |
| WIRE | Potassium Permaganate | Cleaning House Process Tank |
| WIRE | Calcium Hydroxide | Cleaning House Process Tanks |
| WIRE | Formcoat 1A, 1B | Cleaning House Process Tanks |
| General Plant | Mixed Oils | Oil Skimmers-Lagoon |

3.2 Physical Control Strategies

Physical spill control devices such as diking, plumbing changes, alarms, etc. are all outlined in the attached Mill Specific Appendices. For all systems, spills that breach containment in the storage area would enter the storm sewer system and be contained in the scale pit or recirculation lagoon where the oil or hazardous substance could be removed or stabilized.

3.3 Inspections

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ASW and tenant companies will conduct inspections of oil systems and use/storage areas on a regulare basis to monitor and verify the operation of the systems themselves, the operation and effectiveness of control and alarm devices and to identify for corrective action any spill or leak. Such inspections will be conducted according to the following schedule:

| Oil System/Location | Inspection Frequency | Inspection Department |
|---|---|---|
| Morgoil Oil Cellar AA System BB System CC System EE System Scale Pit Oil Skimmer #1 Unloader #2 Unloader Blower Room-Laying Heads Roll Shop | Daily Daily Daily Daily Daily Daily Daily Weekly Weekly Weekly Weekly | Rod Mill Mechanical Maintenance Rod Mill Mechanical Maintenance |
| Bell Annealing Continuous Furnace Cleaning House Chemicals Lagoon Oil Skimmers | Shift Daily-When in Operation Daily/Weekly Weekly | Wire Mill Heat Treating Wire Mill Heat Treating Wire Mill Cleaning House Engineering/Environmental Services |
| Spill Control Kits | Monthly | All Mills with Above Systems |

4.0 Emergency Response Equipment

Emergency Response Equipment, in the form of Spill Control Kits, will be located in various areas. Each mill and the Eng/Environmental Services Department will maintain spill kits containing granular absorbent material, absorbent sheets and booms, shovels, safety gear (spill suits, gloves, pits, etc.).

Each department is responsible for maintaining the Spill Control Kit(s) in there respective areas, evaluating the availability and condition of all items and ordering new equipment as needed. A department may modify the contents of each kit (eg. increase the number of sorbent booms, etc.) to most effectively address the conditions at hand.

5.0 Training

In order to implement this SPCC Plan, ASW will train ASW employees on its contents, availability, oil spill prevention strategies and emergency response procedures. The Manager EHS will conduct training sessions. At a minimum, the following persons will participate in training:

Vice President-Operations General Managers-Cuyahoga All Managers-Cuyahoga

In addition, the General Managers will designate other Production & Maintenance personnel in their respective areas for training participation. Those employees who should attend include persons responsible for:

- oil system inspection
- · oil system operation, repair and maintenance
- emergency spill response

Training will be based upon the following outline:

I. Law & Regulations

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- A. SPCC Requirements
- B. Harmful Discharge (def.)
 - 1. Violation of Water Quality Standards
 - 2. Film or sheen upon or discoloration of the water

- C. Notification of Government Agencies
 - 1. Authorized Managers
 - 2. How to Report

II. Spill/Leak Prevention

- A. Purpose
 - 1. Oil and water: properties and characteristics
 - petroleum
 - · glycols
 - 2. Environmental impacts
 - 3. Oil skimmer efficiencies
- B. Procedures
 - 1. Preventive maintenance
 - 2. Inspection
- C. Physical Control Strategies
 - 1. Secondary containment (dikes, dams, curbs, blind/manual sumps, overflow tanks, etc)
 - 2. Alarms

III. Spill Response and Control Strategies

- A. Routine Oil Collection
 - 1. Portable containment
 - use
 - removal/reclamation
- B. Emergency Response
 - 1. Small Spills
 - Spill Control Kit- use
 - 2. Catastrophic Spills
 - · immediate containment
 - removal to portable containers
 - · lagoon investigation, skimmer continuous operation, discharge booming

IV. Spill Countermeasure and Clean-Up

- A. Clean-Up Materials
 - 1. Handling
 - 2. Disposal
- B. Area & Equipment Clean-Up
 - Repair and wipe down, detergent wash or solvent rinse equipment as appropriate for housekeeping and operation
 - 2. Detergent mop floors to prevent slips
 - 3. Remove contaminated soils (where feasible and necessary for further pollution prevention)
- C. Notification
 - 1. Contact supervisors for investigation and equipment replacement
 - 2. Contact Manager EHS for formal notifications

Exact details will be outlined in training script.

6.0 Governmental Notification

In the unlikely event of a significant release of oil or other hazardous chemical to the Waters of the United States from this facility, ASW will take the necessary actions to control, contain and clean up the spill. Within one (1) hour of discovery of the discharge and within five (5) days in writing, the manager of environmental services will notify the appropriate agencies If the manager of environmental services is unavailable, notice will be made by an alternate manager authorized as follows:

Manager, Engineering/Environmental Services General Manager Department Manager

Shift Supervisor (when previously delegated and instructed by Department

Manager)

Notice shall be made to

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Ohio EPA Emergency Response and District Office

National Response Center

U. S. Coast Guard (Cleveland, OH)

Phone numbers for these agencies can be found on the second page of this document.

Information provided should include

Responder's Name

Company Name

ny Name American Steel & Wire

Address 4300 East 49th St.

Cuyahoga Heights, OH 44125

Company Phone #

(216) 883-3800

Date of Incident Time of incident

Type of material spilled Approximate quantity released chemical name (gallons)

Water Body into which spill

entered

Cuyahoga River, Ohio Canal, etc.

7.0 Administrative Procedures

7.1 Record Keeping

The Manager EHS will maintain on file for at least three years all records pertaining to

inspections training incident reporting notifications program review and amendment

7.2 Security

The ASW Cuyahoga facility guarded and patrolled 24 hours per day by an independent security company, coordinated and supervised by the ASW Vice President Human Resources. Guards patrol the entire facility, including the water recirculation lagoon area, on a routine basis.

7.3 Plan Review

The Engineering/Environmental Servies will review this plan bi-annually in January.

8.0 Appendices

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8.1 Rod Mill

ROD MILL

MORGOIL OIL CELLAR

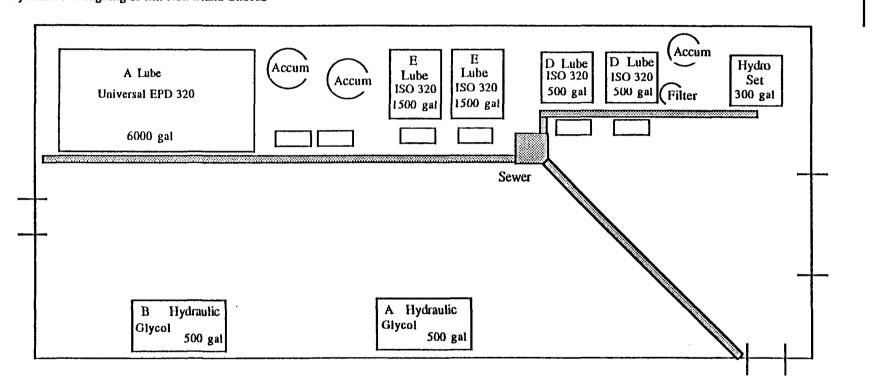
A Lube: Mill Motor Bearings, Reducers, Drives, C &C Shears

E Lube: Intermediate Stands 6-13 D Lube: Roughing Stands 1-5

Hydroset: D & E System Oil/Water Separation

A Hydraulic: Switch Trough, Peel Bar, Top Pull-Out Roll

B Hydraulic: Roughing & Int. Roll Stand Chocks



Peel Bar Cylinder Upper Level

PROPOSED

ROD MILL MORGOIL OIL CELLAR

A Lube: Mill Motor Bearings, Reducers, Drives,

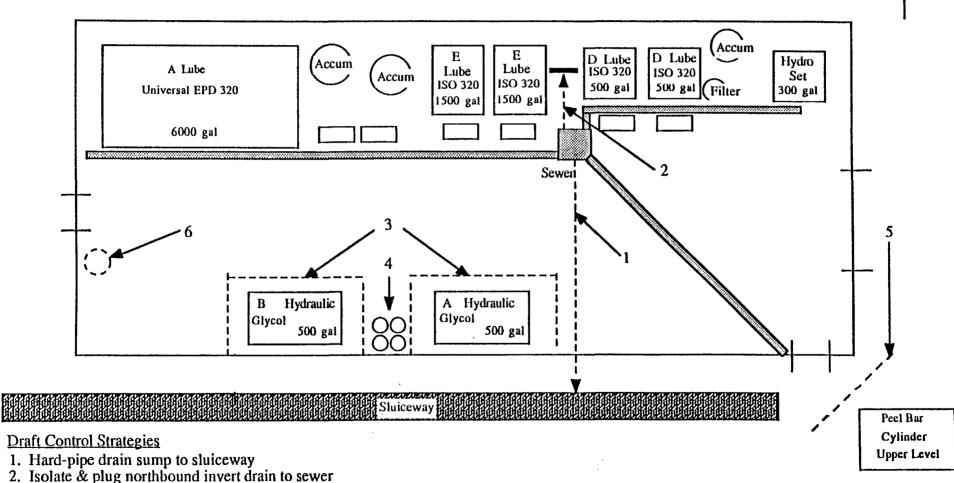
C &C Shears

E Lube: Intermediate Stands 6-13 D Lube: Roughing Stands 1-5

Hydroset: D & E System Oil/Water Separation

A Hydraulic: Switch Trough, Peel Bar, Top Pull-Out Roll

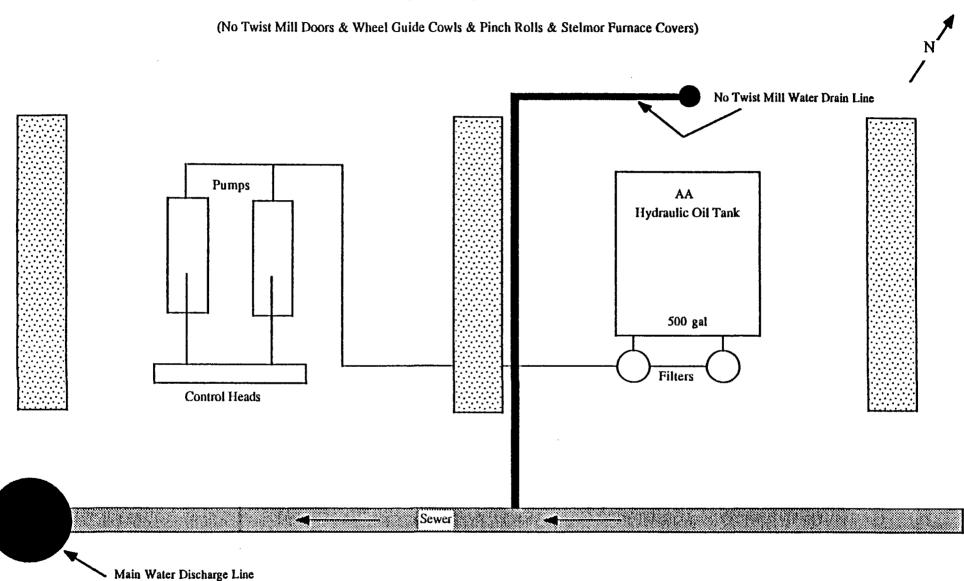
B Hydraulic: Roughing & Int. Roll Stand Chocks

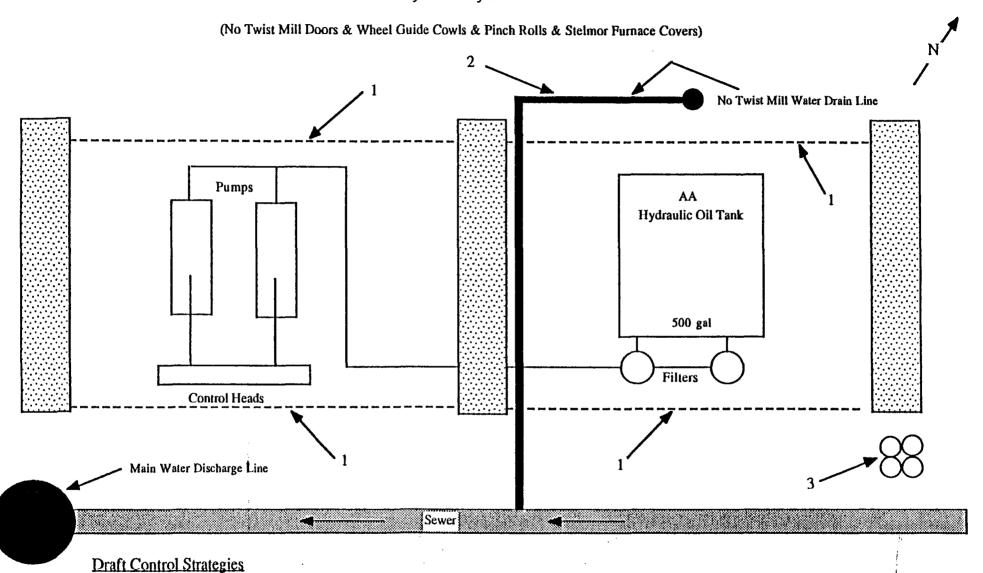


- 3. Isolate glycols from water & other oils by diking A Hydraulic & B Hydraulic Systems
- 4. Maintain removable containers into which spilled/leaked glycols can be pumped and periodically removed for recycle or disposal
- 5. Isolate/eliminate leaks from the Peel Bar cylinder
- 6. Equip & Maintain a container of Spill Response Materials

AA Hydraulic System

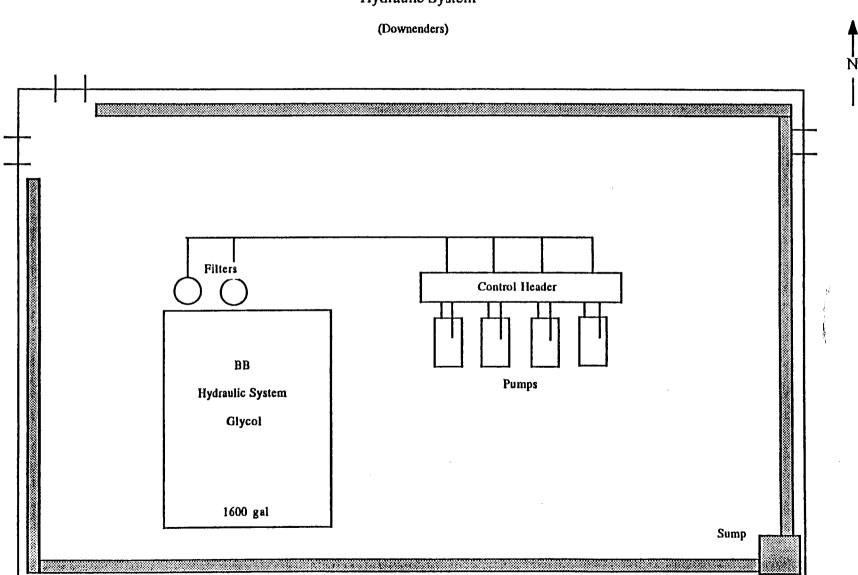
EXISTING





- 1. Dike in entire system to completely isolate from drain
- 2. Reroute No Twist Water Drain (elevate a few feet) to flow over the dike and into the sewer drain line
- 3. Maintain removable containers into which oils, accumulating within the diked areas, can be pumped and periodically removed for recycle

BB Hydraulic System



PROPOSED BBHydraulic System (Downenders) Filters Control Header BB Pumps Hydraulic System Glycol 1600 gal Sump

Draft Control Strategies

- 1. Install a dike with a sump to contain glycol leaks/spills and to isolate them from the Industrial Water System
- 2. Equip & Maintain a container of Spill Response Materials

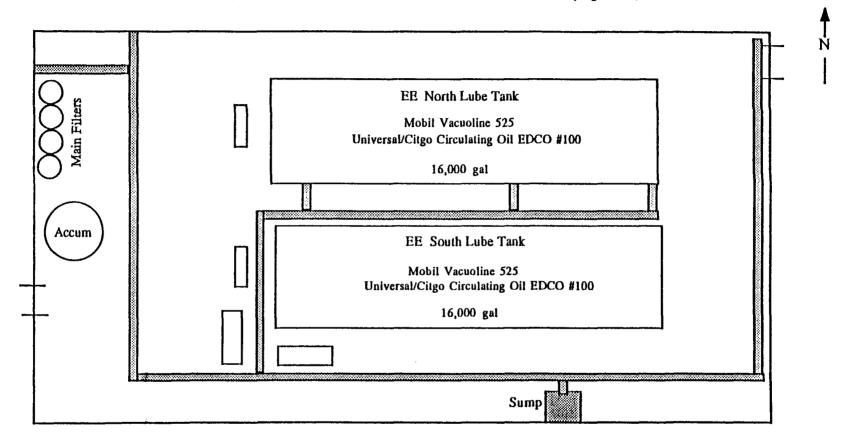
CC Hydraulic System **EXISTING** (Banders) Sump CCHydraulic System Pumps Glycol Control Header 1600 gal Pilters

Draft Control Strategies

- 1. Install a dike with a sump to contain glycol leaks/spills and to isolate them from the Industrial Water system
- 2. Equip & Maintain a container of Spill Response Materials

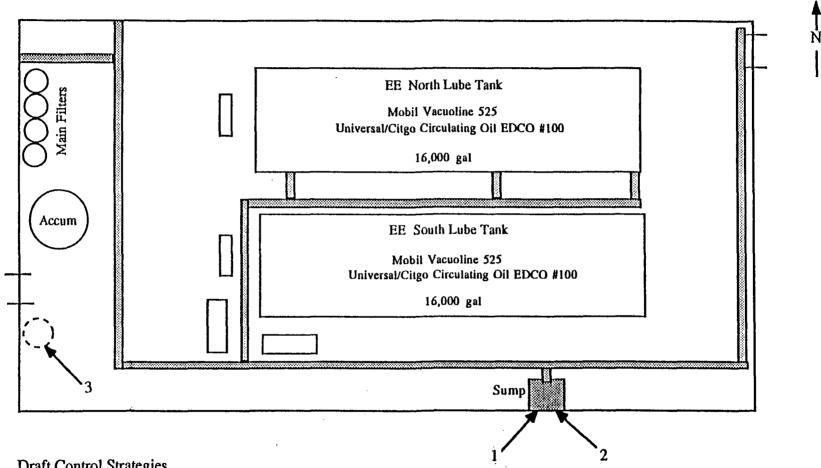
ROD MILL EE LUBE CELLAR

(No Twist Mill & Pinch Rolls, 3-Hi Drives, C & D Shears, Laying Heads)



ROD MILL EE LUBE CELLAR

(No Twist Mill & Pinch Rolls, 3-Hi Drives, C & D Shears, Laying Heads)

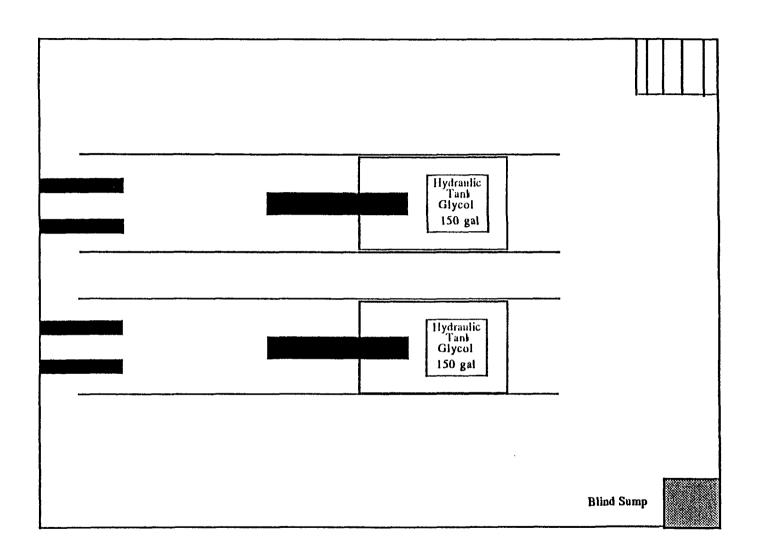


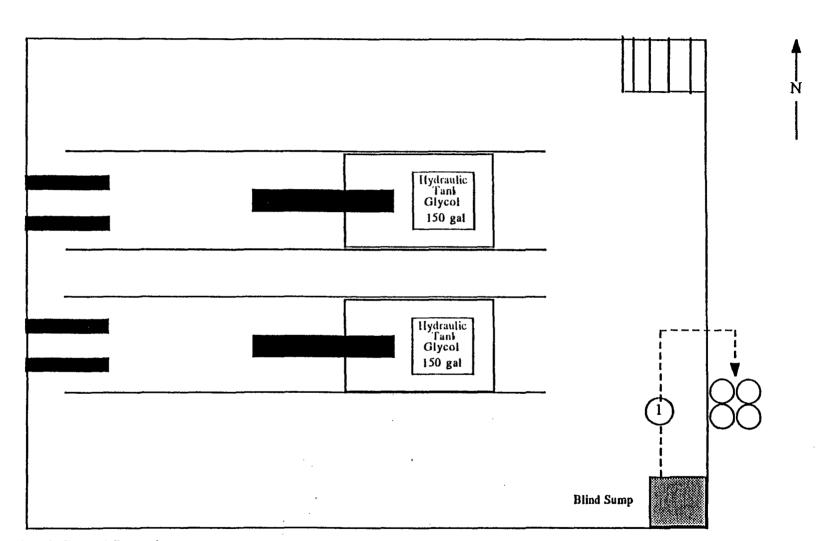
Draft Control Strategies

- 1. Reroute sump discharge to sluiceway/scale pit
- 2. Install a High Level Alarm, sounding in maintenance or other appropriate area, set to indicate an unusually high level (not just leaks & drips) of liquid in the basement. Such a system would allow for response & action preventing a catastrophic spill from being released into the sewer system
- 3. Equip & Maintain a container of Spill Response Materials

1 Unloader





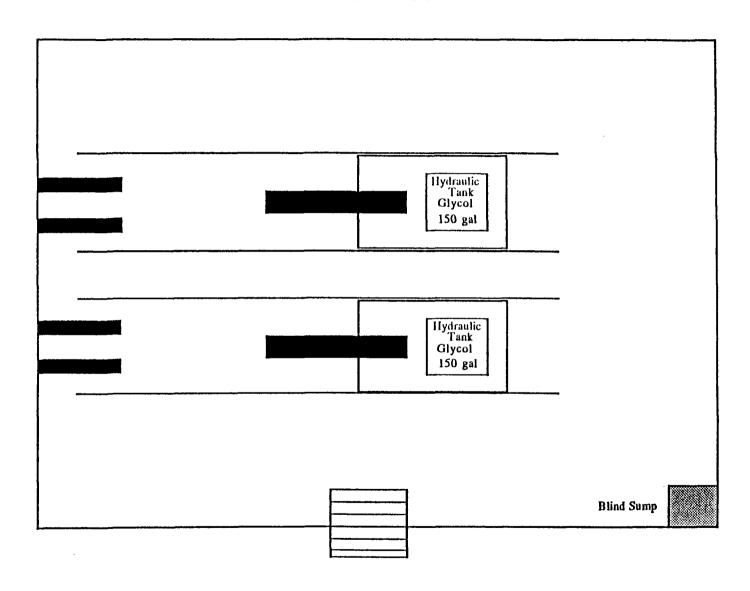


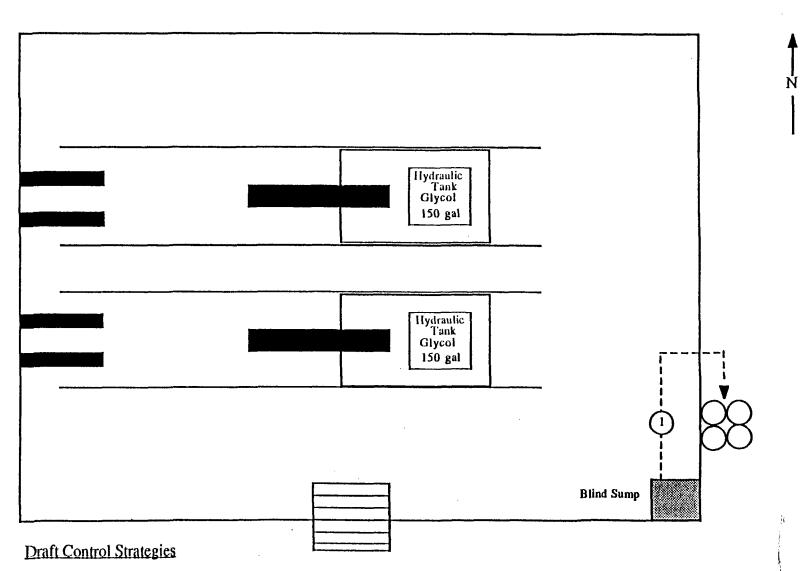
Draft Control Strategies

1. Maintain removeable containers into which spilled/leaked glycols, collecting in the blind sump, can be pumped and periodically removed for recycle or disposal

EXISTING

2 Unloader





1. Maintain removeable containers into which spilled/leaked glycols, collecting in the blind sump, can be pumped and periodically removed for recycle or disposal

8.2 Wire Mill

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AMERICAN STEEL & WIRE CORPORATION

Cuyahoga Works 4300 East 49th Street Cuyahoga Hts., Ohio 44125

WIRE MILL CORROSIVE MATERIALS HANDLING AND SPILL PLAN

March 15,1992

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I. ACID RECEIVING PROCEDURES

General Procedure:

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- 1. Supplier/driver notifies ASW shipping department upon arrival.
- 2. Shipping department notifies cleaning house of delivery.
- 3. Shipping department contacts Cleaning House Lab Technician or duty pipefitter to have them inspect valves. Make sure valves are open and acid tank will accommodate amount of acid being delivered.
- 4. After inspection of valves, have driver put on his safety gear. All necessary clothing/equipment must be worn by person pumping the acid at all times.

Gear Required:

Splash suit Rubber gloves Helmut Rubber boots Face shield

- 5. Shipping department will inspect eyewash and shower to ensure proper function.
- 6. Shipping personnel ensure shower alarm is turned on. Located on south wall just inside archway between shipping and wire drawing.
- 7.If safety shower, eyewash, and alarm are functioning, driver may then be authorized to start pumping.
- 7(a). If shower, eyewash, or alarm is not working, contact maintanance for repair. No pumping is to take place without safety equipment operating properly.
- 9.Log material in daily receiving log and attach packing slip and delivery receipt.

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II. ACID STORAGE

General:

- 1. Gauge/check acid volume at least once per week.- Responsibilty C.H Lab Tech.
- 2. Inspect tank and lines for leaks weekly. Responsibility C.H. Maintenance
- 3. Protective equipment and clothing must be worn at all times while inspecting, gauging, or working on or near storage tanks and/or the acid line.

Future Projects:

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- 1. A shower and a communication/alrm system needs to be installed somewhere in the area.
- 2. Gauging procedures The acid volume is presently gauged by employees using a dip-stick. The procedure is risky because the individual doing the gauging has to climb up onto the tank. Bob Wilson should be contacted and asked about the present procedure and whether he feels there are any viable alternatives.
- 3. Obtain information concerning the volume and frequency of acid delivery, the maximum volume of the acid storage tanks, and the average length of time acid remains in the tanks (how much is pumped daily into the cleaning house for use.)
- 4. Label the acid tanks and acid line to the cleaning house.
- 5. Obtain information concerning the shut-off valve system for eventual training purposes.

III. ACID HANDLING IN CLEANING HOUSE

General Procedure:

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- 1. Inspect acid line weekly
- 2. Spills to basement must be either:
 - a. contained for re-use or waste disposal, or
 - b. neutralized prior to discharge into sanitary sewer
- 3. Acid is stored in a container near the Keramchemie and fed into the Keramchemie as needed which, in turn, feeds the now less concetrated acid into the wire pickeling tanks. The acid from the tanks is recycled through the keramchemie and reused until arrangements can be made for removal.
- 4. The above listed items are the responsibility of the Cleaning House Maintance Dept.

Future Projects:

1. Obtain information concerning the shut-off valve system. Mark location of shut-off valves on acid map (drawing of wire mill) in preparation for training program.

IV. PROCEDURE FOR WASTE ACID DISPOSAL

AS&W currently diposes of our waste acid directly into a tank truck, which is then hauled off the premisis and disposed of in a proper manner.

A. General Procedure:

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- 1. AS&W contacts waste acid hauler to set up disposal date.
- 2. Supplier/driver notifies AS&W Cleaning House upon arrival.
- 3. Waste hauler then enters Wire Mill, drives to the Cleaning House area, and locates his truck for proper removal.
- 4. After inspection of his equipment, driver is responsable to wear all safety gear.
- 5. Cleaning House will inspect eyewash and shower, and if functioning, driver is then permitted to start removal. If eyewash and shower is not functioning, contact Cleaning House Maintance for repairs.
- 6. No removal is to take place with out equipment operating properly.
- 7. Driver places hoses in containment and procedes to remove spent acid from containment.
- 8. Driver/operator contacts the proper Cleaning House personel when removal is completed.
- 9. Cleaning House personel and hauler are to complete the Hazardous Waste Manifest and Land Ban Form. (see procedure herin)

B. Future Projects:

1. Obtain information as to who the transporter/disposer is, the frequency of removal, and the average amount of removed each time.

V. SPILL RESPONSE PROCEDURES

- 1. Call for assistance
- 2. Isolate hazard area
- 3. Put on personal protective equipment

Faceshield

Protective suit (jacket & pants)

gloves

boots (rubber, PVC, nitrile, or neoprene materials)

- 4. Stop flow or spray of acid with shut-off valves

 Cover storm sewer with sewer drain if a sewer is in the area
- 5. Contain spill:

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Pumpable quantities should be contained for pumping into a holding container, otherwise absorb all free liquids with floor-dry sorbent materials (creating a less reactive semi-solid)

- 6. Neutralize the semi-solid with soda ash (Na₂CO₃) or lime (Ca(OH)₂ or CaO) until the pH is at least 4
- 7. Shovel the neutralized semi-solid into containers for non-hazardous, solid industrial waste disposal
- 8. Wash down the area thoroughly with water
- 9. Complete incident report and notify EH&S department

First Aid Procedures

- 1. Speed in removing substance from skin is extremely important.
- 2. Flush with water for at least 15 minutes.
- 3. Remove contaminated clothing and isolate it at the spill/leak site.

VI. LOCATIONS FOR SPILL EQUIPMENT

| | NUMBER | LOCATION | <u>CARETAKER</u> |
|-------------------|------------|---|-------------------|
| Safety Locker | 1 | Cleaning House near Keramkemie E. | Sherry/B.Wilson |
| | 2 | Near acid storage tanks by continuous furnace | B. Wilson |
| | 3 | Shipping Dock - southeast corner | J.Kramarz Sr. |
| | 4 | Cleaning House temp. control room. | E.Sherry |
| | | | |
| Cleanup Pallet | | | |
| Cleanup Fanet | 1 | Cleaning house near Keramkemie | E Sherry/B.Wilson |
| | 2 | Near acid storage tanks by continuous furnace | B. Wilson |
| | | | |
| Showers/ | | | |
| Eyewash | 1 | Cleaning house near Keramkemie | E. Sherry |
| | 2 | Outside, near shipping dock | B. Wilson |
| | 3 | Near acid storage tanks by continuous furnace | B. Wilson |
| | | a | |
| Approved for Impl | ementation | Manager, C | Cleaning House |
| | | Date | 20-92 |

VI. PROCEDURES FOR COMPLETING HAZARDOUS WASTE MANIFEST AND LAND BAN CERTIFICATION FORM

The following procedures update the steps which must be taken whenever hazardous waste is removed from ASW. The procedure for completion of a hazardous waste manifest remains the same. The only additional steps, arise out of EPA's more recent land disposal rules requiring that a land ban form be sent along with every shipment of hazardous waste. The Land Ban Certification form contains all of the required information and it's completion will only require a few minor steps. Procedures for completion of manifests and land ban forms are included herein.

Generating Mill Responsibilities

- 1. Arrange for the pickup of material
- 2. Notify scale house operator of the date and approximate time of pickup.
- 3. Complete and sign the hazardous waste manifest(see attachment A & C for instructions)
- 4. Complete and sign the Land Ban Certification form. (see attachment B for instructions)
- 5. Maintain records and copies of the manifests and land ban forms.
- 6. NOTE:

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- a) Each shipment/truckload must have its own manifest.
- b) See attechment B for a list of individuals authorized to sign the manifests and land ban forms.

Scale House Operator Responsibilities

- 1. Weigh trucks upon entry and exit.
- 2. Note the weight (in pounds) on the hazardous waste manifest (sections 13 & 14).
- 3. Make sure that the driver enters the total volume (in gallons) for liquid cargo.
- 4. Photocopy the original completed manifest.
- 5. Photocopy the completed Land Ban Form.
- 6. Forward to the Manager, Environment, Health, and Safety (Joe Markiw):
 - a. the generator copy of the manifest packet,
 - b. the photocopy of the original manifest, &
 - c. the photocopy of the Land Ban cetification form.

Environment, Health and Safety Responsibilities

- 1. Issue sequentially numbered manifests to mills as needed. (be sure they are numbered and logged) Also issue land ban forms as needed.
- 2. Maintain records of manifests and land ban forms.
- 3. Complete and file annual hazardous waste reports with Ohio EPA.

ATTACHMENT A

1. ASW Hazardous Waste Manifests: Information for completion

Manifest item

Number

LI

- 1. OHD 004 220 810 (US EPA generator ID# specific for ASW cuyahoga works)
- American Steel & wire Corporation (Generator name & address)
 4300 East 49th Street
 Cuyahoga Heights, Ohio 44125
- 4. (216) 883-3800

(generator phone number)

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- 5-8 Should be completed by transporters.

 NOTE: Transporters will normally be aware of their responsibilities concerning the manifest's completion. However, under certain circumstances, wire mill personnel will have to complete (TYPE) this information ahead of time. Designation of these responsibilities should be arranged with the transporter and receiving facilities prior to removal of the waste. (see attachment E)
- 9-10 Should be completed by AS&W prior to transporter arrival.
- 11. HM Mark an "X" in the box if the material is a hazardous material.

 Also complete the "US DOT Description" section to include certain shipping information (see attachment D for "HM" status and waste specific information)
- 12. (see attachment C for container codes) This section may be hand printed (to accurately reflect the true shipment container of the day.) Normally, waste will be hauled offsite in a tanker truck (cargo tank) and therefore the appropriate *container type* will be "TT". Since one manifest is required for each shipment/truckload the *container No*. will normally be "01". (these items may be pre-completed whenever possible.)
- 13-14 <u>Pounds</u> should be listed by the Scale House Operator. <u>Gallons</u> (for liquids) should be listed by the transporter. Enter the total quantity/amount of the material in item #13 and, along side of that, in item #14, enter the respective unit of measurement (ie. P = pounds, and G = gallons)
- 15. Specify hazard warning and protective equipment here (see attachment D for info.)

ATTACHMENT B

Land Ban Certification Form: Completion instructions

- 1. Fill in proper address and mark an "X" in the appropriate box signifying which mill the waste is being removed from
- 2. Mark an "X" on one of the lines next to the listed wastes to identify the material which is being shipped
- 3. Mark an "X" on the line next to the applicable certification/notification category. (The correct category to mark can be identified by looking to the column along side of the particular waste being shipped under the heading of "Mark Category".)
- 4. In the Waste Analysis column, circle "YES" if a waste analysis accompanies the land ban form and circle "NO" if no analysis accompanies.
- 5. Print name and write signature.

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Authorized Signatures (for manifests and land ban forms)

J. Markiw R. Meyer
R. Belcher R. Pajk
C. Valore M. Blake
J. Meyer H. Lafferty



ASW WIRE MILL Heat Treating/Bells

Oil Spill Prevention & Control Procedures

POTENTIAL SOURCES

In the Bells Annealing basement, there are two potential sources of an oil discharge that all operators must be aware of:

Overflow

- Recirculation system pump failure
- Recirculation tank line or filter plugging
- System overfilling by operator

Leak

- Broken lines
- Improperly sealed fittings

SECONDARY CONTAINMENT, NOTIFICATION & RESPONSE EQUIPMENT

In order to prevent an overflow from entering the water system, ASW is installing a secondary containment and alarm system to notify operators and contain the overflowing oil until corrective action can be taken. The system is composed of the following:

1. Overflow Tanks

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Two overflow tanks, with approximately 600 gallon capacity each, will be installed, one each in the north and south lanes of the basement. Each tank will service two recirculating systems (quadrants). An overflow port and gravity flow line will be installed on each recirculating tank. In the event that the oil level in any of these tanks exceeds normal operating height, the oil will run through the gravity flow line into the overflow tank instead of onto the floor.

2. High Level Alarm System

High Level Alarms will be set in each recirculating tank at the overflow level. In the event of high level oil, an audible alarm will sound and an indicator light (at one central location) will illuminate, signaling to the operator the exact location of the overflowing recirculating tank.

- 3. Two Spill Control Kits will be located in the basement, one at the east end of the North Lane and one at the west end of the South Lane. Each kit will contain the following items:
 - A drum or pallet of Floor-Dry (equivalent of 8 40 lb. bags)
 - One Shovel

- One Push Broom
- Two 46" Sorbent Booms
- Two pair Rubber Overshoes/Boots
- Two Pair Gloves

INSPECTION & CORRECTIVE ACTION

On a routine basis (beginning of each shift) the Bells Annealing Operator will conduct a Tour/Inspection of the entire basement (both north & south lanes) for oil spill prevention, control and corrective action. Procedures are as follows:

INSPECTION ITEM

- 1. Atmosphere of basement: safe levels of oxygen, nitrogen & combustible gases (use a portable gas meter)
- Integrity of recirculating tank, pump, motor, & associated piping (holes, cracks, leaks drips & general operation)
- 3. Level of oil in the recirculating tank
- 4. Level of oil in overflow tank
- 5. Used Oil Holding Drums
- 6. Oil & Water on the Floor
- 7. Housekeeping

CORRECTIVE ACTION

If levels are measured as unsafe, immediately evacuate basement, notify all employees in area, Bells supervisor & Maint. Dept. (Following action to be determined upon investigation)

Note any such problems and contact Maint, to repair any breaks or malfunctions

Note level as 1/4, 1/2, 3/4 or Full and adjust recirculation flow rate as needed for proper operation

If the level equals or exceeds 25% of tank capacity, pump this oil into used oil holding drums for removal

When these drums are full, remove them from basement, transport them to an oil collection center (Rod Mill oil skimmer tank) empty the drums into the collection vessel & return the drums to the Bells basement

Oils must be cleaned up with floordry & residue shoveled into refuse containers. Water with <u>no oil</u> can be squeegeed or brushed to sewer drain. Floors must be maintained clean & dry

General rubbish & articles must be collected and placed in refuse containers. Operators must period-cally remove containers, empty rubbish, & replace containers

8. Spill Control Kits (availability & condition of all items)

Procure & replace Floor-Dry as necessary. If other items are missing or damaged, contact your supervisor for replacement

WEEKEND CONTROL STRATEGY

In order to prevent undetected leaks or system failure on weekends, the following strategies will be undertaken:

1. Operators will drain all oil from the Base Seals

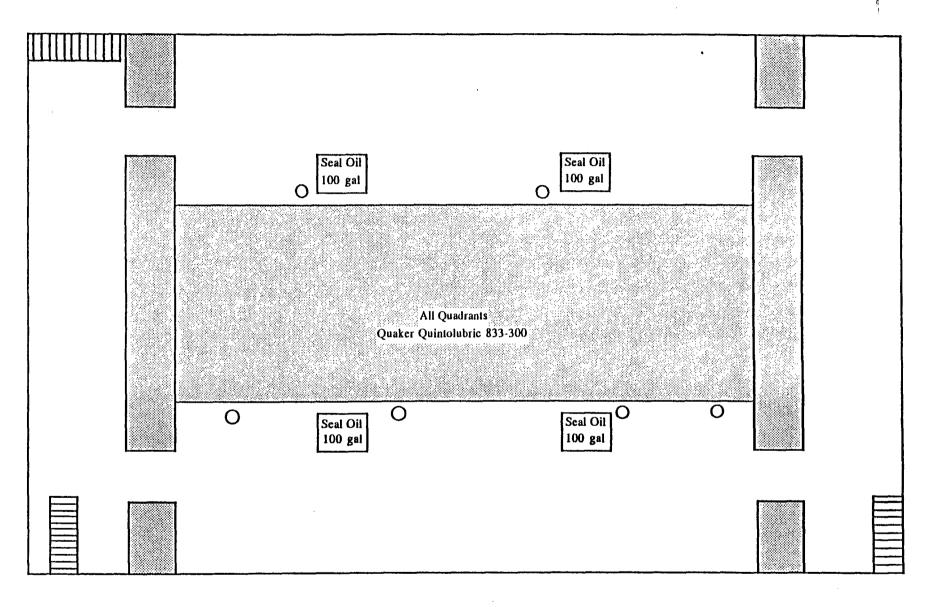
- 2. Operators will pump all oil from the Recirculating Tanks up into the Holding Reservoirs (Floor Level)
- 3. Operators will securely close the Holding ReservoirOutlet Valves (X).

Approved for Implementation

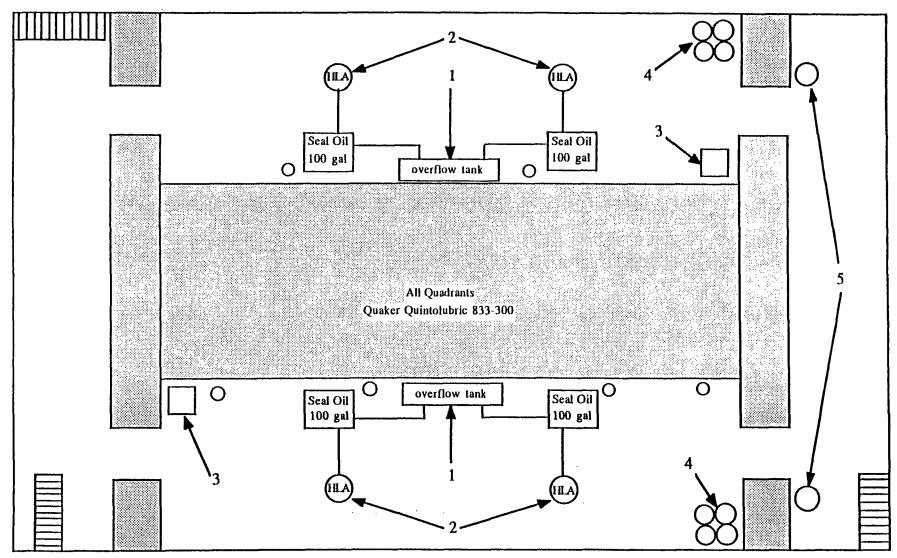
Manager, Heat Treating

Date

WIRE MILL HEAT TREATING/BELLS BASEMENT



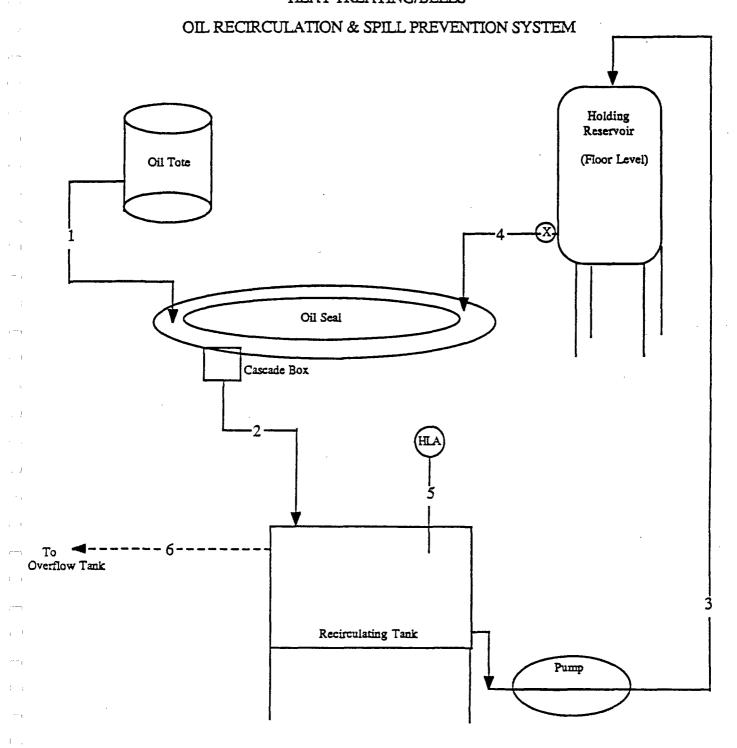
WIRE MILL HEAT TREATING/BELLS BASEMENT



DRAFT CONTROL STRATEGIES

- Install & connect overflow tanks capable of containing volume for at least one complete recirculating system
 Install High Level Alarms (HLA) in each recirculating tank to indicate if/when any system begins to overflow
- Equip & Maintain Spill Control Kits
 Equip & Maintain Used Oil Holding Drums (Containers)
- 5. I ocate & Maintain general rubbish Refuse Containers

WIRE MILL HEAT TREATING/BELLS



- 1. Operator fills Oil Seal with oil directly from the supplier's portable Oil Tote
- 2. Oil cascades (through Cascade Box) down into the Recirculating Tank at basement level
- 3. Oil is recirculated via pump up into an oil Holding Reservoir at floor level
- 4. With the valve (X) open, oil gravity feeds into the oil seal and the cascade/recirculation process continues
- 5. In the event of a system failure, the High Level Alarm (HLA) will sound (horn) and a location indicator light will illuminate, alerting Bells Operator to the location of malfunction and potential oil overflow
- 6. Overflowing oil will flow through the overflow line into the overflow tank